1652 01/1702 1600

	RAW SEQUENCE LISTING PATENT APPLICATION: US/09/722,602A Input Set: A:\seqlist.txt Output Set: N:\CRF3\01032002\1722602A.raw	TECH CENTER -SI
5 6 8 11		
14 16 17 19 21	<pre><141> CURRENT FILING DATE: 2000-11-27 <150> PRIOR APPLICATION NUMBER: US 09/571 553</pre>	renet
25 26 28 29	<pre><211> LENGTH: 36 </pre> <pre><212> TYPE: DNA </pre> <pre><213> ORGANISM: Artificial Sequence </pre> <pre><220> FEATURE: </pre> <pre><223> OTHER INFORMATION: Primer </pre> <pre><400> SEQUENCE: 1</pre>	
34 35 36 37	aattcgaagc ttatggcctc agcacctatc ggaagc <210> SEQ ID NO: 2 <211> LENGTH: 33 <212> TYPE: DNA <213> ORGANISM: Artificial Sequence <220> FEATURE:	36
42 43 45 46 47	<223> OTHER INFORMATION: Primer <400> SEQUENCE: 2 cttccttcta gattactgag taacgcgaat cgt <210> SEQ ID NO: 3 <211> LENGTH: 30 <212> TYPE: DNA	33
50 51 53 54	<213> ORGANISM: Artificial Sequence <220> FEATURE: <223> OTHER INFORMATION: Primer <400> SEQUENCE: 3 ggaagagaat tcaatacgca aaccgcctct <210> SEQ ID NO: 4	30
57 58 59 61 62	<211> LENGTH: 32 <212> TYPE: DNA <213> ORGANISM: Artificial Sequence <220> FEATURE: <223> OTHER INFORMATION: Primer	
65 67 68 69	<400> SEQUENCE: 4 ggtcataagc ttttcctgtg tgaaattgtt at <210> SEQ ID NO: 5 <211> LENGTH: 30 <212> TYPE: DNA <213> ORGANISM: Artificial Sequence	32

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/722,602A T

DATE: 01/03/2002 TIME: 13:02:00

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\01032002\I722602A.raw

72 <220> FEATURE: 73 <223 > OTHER INFORMATION: Primer 75 - 400> SEQUENCE: 5 76 accatgattt cgacgtcggt accctcagca 30 78 <210> SEQ ID NO: 6 79 <211> LENGTH: 30 80 <212> TYPE: DNA 81 <213> ORGANISM: Artificial Sequence 83 <220> FEATURE: 84 <223> OTHER INFORMATION: Primer 86 < 400> SEQUENCE: 6 87 cttcctaagc tttcactgag taacgcgaat 30 89 <210> SEQ ID NO: 7 90 <211> LENGTH: 30 91 <212> TYPE: DNA 92 <213> ORGANISM: Artificial Sequence 94 <220> FEATURE: 95 <223> OTHER INFORMATION: Primer 97 <400> SEQUENCE: 7 98 ggaagaggta ccaatacgca aaccgcctct 30 100 <210> SEQ ID NO: 8 101 <211> LENGTH: 29 102 <212> TYPE: DNA 103 <213> ORGANISM: Artificial Sequence 105 <220> FEATURE: 106 <223> OTHER INFORMATION: Primer 108 <400> SEQUENCE: 8 109 ttgttcctgc ggctgcagca attgaaccg 29 111 <210> SEQ ID NO: 9 112 <211> LENGTH: 30 113 <212> TYPE: DNA 114 <213> ORGANISM: Artificial Sequence 116 <220> FEATURE: 117 <223> OTHER INFORMATION: Primer 119 <400> SEQUENCE: 9 120 tgccggtcga ctctagatta ctgagtaacg 30 122 <210> SEQ ID NO: 10 123 <211> LENGTH: 639 124 <212> TYPE: PRT 125 <213> ORGANISM: Artificial Sequence 127 <220> FEATURE: 128 <223> OTHER INFORMATION: Mutant 9.16.8D2 (N537D) of D. dendroides GaO 130 <400> SEQUENCE: 10 131 Ala Ser Ala Pro Ile Gly Ser Ala Ile Ser Arg Asn Asn Trp Ala Val 132 5 133 Thr Cys Asp Ser Ala Gln Ser Gly Asn Glu Cys Asn Lys Ala Ile Asp 134 20 25

135 Gly Asn Lys Asp Thr Phe Trp His Thr Phe Tyr Gly Ala Asn Gly Asp

40

136

RAW SEQUENCE LISTING DATE: 01/03/2002 PATENT APPLICATION: US/09/722,602A TIME: 13:02:00

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\01032002\I722602A.raw

137 138	Pro	Lys 50	Pro	Pro	His	Thr	Tyr 55	Thr	Ile	Asp	Met	Lys 60	Thr	Thr	Gln	Asn
139 140	Va l 65	Asn	Gly	Leu	Ser	Met 70		Pro	Arg	Gln	Asp		Asn	Gln	Asn	Gly 80
$\frac{141}{142}$		Ile	Gly	Arg	His 85		Val	Tyr	Leu	Ser		Asp	Gly	Thr	Asn 95	Trp
143	Gly	Ser	Pro		Ala	Ser	Gly	Ser		Phe	Ala	Asp	Ser		Thr	Lys
$\frac{144}{145}$	Tyr	Ser				Thr	Arg	Pro	105 Ala		Tyr	Val	Arg	110 Leu		Ala
146	- 1	m)	115		_			120					125			
$\frac{147}{148}$		130					135					140				Asn
149	Val	Phe	Gln	Ala	Ser	Ser	Tyr	Thr	Ala	Pro	Gln	Pro	Gly	Leu	Gly	Arg
150	145					150					155					160
$\frac{151}{152}$	Trp	Gly	Pro	Thr	Ile 165		Leu	Pro	Ile	Val 170		Ala	Ala	Ala	Ala 175	Ile
153	Glu	Pro	Thr	Ser	Gly	Arg	Val	Leu	Met.	Trp	Ser	Ser	Tyr	Arg	Asn	Asp
154				180					185					190		_
$\frac{155}{156}$	Ala	Phe	Gly 195	Gly	Ser	Pro	Gly	Gly 200	Ile	Thr	Leu	Thr	Ser 205	Ser	Trp	Asp
157	Pro	Ser		Glv	Ile	Va l	Ser		Ara	Thr	Val	Thr		Thr	Lvs	Hie
158		210		1			215		**** 9		, 41	220	vai	1111	цуз	1113
159	Asp	Met	Phe	Cys	Pro	Gly	Ile	Ser	Met	Asp	Glv		Glv	Gln	Ile	Val
160	225			_		230					235		0-1	011.		240
161	Val	Thr	Gly	Gly	Asn	Asp	Ala	Lys	Lys	Thr	Ser	Leu	Tyr	Asp	Ser	
162					245					250					255	
163	Ser	Asp	Ser	Trp	Ile	Pro	Gly	Pro	Asp	Met	Gln	Val	Ala	Arg	Gly	Tyr
164				260					265					270		-
165	Gln	Ser		Ala	Thr	Met	Ser		Gly	Arg	Val	Phe	Thr	Ile	Gly	Gly
166	_	_	275		_			280					285			
167	Ser		Ser	Gly	Gly	Val		Glu	Lys	Asn	Gly		Val	Tyr	Ser	Pro
168	Com	290	T	m)		m l.	295	_	_	_		300	•			
169 170	305	ser	гÀг	THE	тгр	310	ser	Leu	Pro	Asn		Lys	Val	Asn	Pro	
171		Thr	Δla	Λen	Luc		C137	LOU	Trans	λκα	315	ħ a n	n an	His	710	320
172	LCu	1111	AIG	лэр	325	GIII	СТУ	ьеu	тут	330	ser	ASP	ASII	HIS	335	тгр
173	Leu	Phe	Glv	Trn		Lvs	Glv	Ser	Val		Gln	Δla	Clv	Pro		Thr
174		1 110	5 21	340	<i>D</i> ₁ <i>D</i>	110	OL,	DCI	345	THE	GIH	AIG	Gry	350	Set	1111
175	Ala	Met	Asn		Tvr	Tvr	Thr	Ser		Ser	Glv	Asp	Val	Lys	Ser	Δla
176			355		- 1 -	- 1		360	1		011	пор	365	$L_I S$	DCI	III.a
177	Gly	Lys	Arg	Gln	Ser	Asn	Arg		Val	Ala	Pro	Asp		Met	Cvs	Glv
178		370	_				37 5	_				380			012	011
179	Asn	Ala	Val	Met	Tyr	Asp	Ala	Val	Lys	Gly	Lys		Leu	Thr	Phe	Gly
180	385					390					395					400
181	Gly	Ser	Pro	Asp	Tyr	Gln	Asp	Ser	Asp	Ala	Thr	Thr	Asn	Ala	His	Ile
182					405					410					415	
183	Ile	Thr	Leu		Glu	Pro	Gly	Thr		Pro	Asn	Thr	Val	Phe	Ala	Ser
184	_			420		_			425					430		
185	Asn	GLY	Leu	Tyr	Phe	Ala	Arg	Thr	Phe	His	Thr	Ser	Val	Val	Leu	Pro

RAW SEQUENCE LISTING DATE: 01/03/2002

PATENT APPLICATION: US/09/722,602A TIME: 13:02:00

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\01032002\1722602A.raw

186			435					440					445			
187	Asp	Glv		Thr	Phe	He	Thr			Gln	Ara	Ara		Ile	Pro	Dha
188		450					455	O T I	o I I	3111	*** 9	460	GI j	110	110	1 110
189	Glu	Asp	Ser	Thr	Pro	Val		Thr	Pro	Glu	Ile		Val	Pro	Glu	Gln
190	465	•				470					475	- 1 -			013	480
191	Asp	Thr	Phe	Tyr	Lys		Asn	Pro	Asn	Ser	Ile	Val	Ara	Val	Tvr	
192	•			•	485					490				,	495	
193	Ser	Ile	Ser	Leu	Leu	Leu	Pro	Asp	Gly	Arq	Val	Phe	Asn	Gly	Glv	Glv
194				500				*	505					510		1
195	Gly	Leu	Cys	Gly	Asp	Cys	Thr	Thr	Asn	His	Phe	Asp	Ala	Gln	Ile	Phe
196			515	_	-	-		520				•	525			
197	Thr	Pro	Asn	Tyr	Leu	Tyr	Asn	Ser	Asp	Gly	Asn	Leu	Ala	Thr	Arq	Pro
198		530					535			-		540			,	
199	Lys	Ile	Thr	Arg	Thr	Ser	Thr	Gln	Ser	Val	Lys	Val	Gly	Gly	Arg	Ile
200	545					550					555			_	-	560
201	Thr	Ile	Ser	Thr	Asp	Ser	Ser	Ile	Ser	Lys	Ala	Ser	Leu	Ile	Arg	Tyr
202					565					570					575	
203	Gly	Thr	Ala	Thr	His	Thr	Val	Asn	Thr	Asp	Gln	Arg	Arg	Ile	Pro	Leu
204				580					585					590		
205	Thr	Leu	Thr	Asn	Asn	Gly	Gly	Asn	Ser	Tyr	Ser	Phe	Gln	Val	Pro	Ser
206			595					600					605			
207	Asp		Gly	Val	Ala	Leu		Gly	Tyr	Trp	Met	Leu	Phe	Val	Met	Asn
208		610	_				615					620				
209		Ala	Gly	Val	Pro		Val	Ala	Ser	Thr		Arg	Val	Thr	Gln	
210	625					630					635					
	<210>			NO:	11											
			TOTAL	(2)	`											
				639	9											
214	<212>	> TYP	E: I	PRT		Ei ai a	vl. Ga	. ~ ^								
214 215	<212><213>	> TYP > ORG	PE: E	PRT SM: A		iciā	al Se	equer	nce							
214 215 217	<212><213><223>	> TYI > OR(> FE	PE: E GANIS ATURE	PRT SM: A	Artif					6011	1 (37)	1047	CE 1	I E C V	o.f. r	a dondusida.
214 215 217 218	<212><213><223>	> TYP > ORG > FEA > OTH	PE: E GANIS ATURE HER I	PRT SM: A	Artif					. 6C11	l (V4	194A,	C51	l5S)	of [). dendroides
214 215 217 218 219	<212><213><220><223>	> TYI > ORC > FEA > OTH GaC	PE: IGANIS ATURI HER I	PRT SM: A E: Infor	Artif RMATI					. 6C11	L (V4	194A,	C51	L5S)	of [). dendroides
214 215 217 218 219 221	<212><213><223><220><223>	> TYI > ORO > FEA > OTH GaO > SEQ	PE: IGANIS ATURI HER IG QUENC	PRT SM: A E: INFOR	Artif RMATI L1	ON:	Muta	nt 9	9.16.							
214 215 217 218 219 221 222	<212><213><220><223><400>Ala	> TYI > ORO > FEA > OTH GaO > SEQ	PE: IGANIS ATURI HER IG QUENC	PRT SM: A E: INFOR	Artif RMATI L1 Ile	ON:	Muta	nt 9	9.16.	Ser				l5S) Trp	Ala	
214 215 217 218 219 221 222 223	<212><213><220><223><400>Ala	> TYI > OR(> FEI > OTI Ga(> SE(Ser	PE: FGANISATURE ATURE HER I DUENC Ala	PRT EM: F E: ENFOR CE: 1 Pro	Artif RMATI L1 Ile 5	ON:	Muta Ser	ant 9 Ala).16. Ile	Ser 10	Arg	Asn	Asn	Trp	Ala 15	Val
214 215 217 218 219 221 222 223 224	<212><213><220><223><400>Ala	> TYI > OR(> FEI > OTI Ga(> SE(Ser	PE: FGANISATURE ATURE HER I DUENC Ala	PRT E: ENFOR CE: 1 Pro	Artif RMATI L1 Ile 5	ON:	Muta Ser	ant 9 Ala	Ile Asn	Ser 10	Arg	Asn	Asn	Trp Ala	Ala 15	Val
214 215 217 218 219 221 222 223 224 225	<212><213><220><223><400>Ala Thr	> TYP > OR(> FEA > OTH Ga(> SE(Ser	PE: FGANISATURE HER 1 DUENC Ala Asp	PRT EM: A E: ENFOR Pro Ser 20	Artif RMATI 11 Ile 5 Ala	Gly Gln	Muta Ser Ser	ant 9 Ala Gly	Ile Asn 25	Ser 10 Glu	Arg Cys	Asn Asn	Asn Lys	Trp Ala 30	Ala 15 Ile	Val Asp
214 215 217 218 219 221 222 223 224 225 226	<212><213><220><223><400>Ala Thr	> TYP > OR(> FEA > OTH Ga(> SE(Ser	PE: FGANISATURE HER 1 DUENC Ala Asp	PRT EM: A E: ENFOR Pro Ser 20	Artif RMATI 11 Ile 5 Ala	Gly Gln	Muta Ser Ser	Ala Gly His	Ile Asn 25	Ser 10 Glu	Arg Cys	Asn Asn	Asn Lys Ala	Trp Ala	Ala 15 Ile	Val Asp
214 215 217 218 219 221 222 223 224 225	<212><213><220><220><400>Ala Thr	> TYI > ORC > FEI > OTH GaC > SEC Ser Cys Asn	PE: IF SANIS ATURE HER IF DUENC Ala Asp	PRT SM: A S: INFOR CE: 1 Pro Ser 20 Asp	Artif RMATI L1 Ile 5 Ala Thr	GON: Gly Gln Phe	Muta Ser Ser Trp	Ala Gly His	Ile Asn 25 Thr	Ser 10 Glu Phe	Arg Cys Tyr	Asn Asn Gly	Asn Lys Ala 45	Trp Ala 30 Asn	Ala 15 Ile Gly	Val Asp Asp
214 215 217 218 219 221 222 223 224 225 226 227	<212><213><220><220><400>Ala Thr	> TYI > ORC > FEI > OTH GaC > SEC Ser Cys Asn	PE: IF SANIS ATURE HER IF DUENC Ala Asp	PRT SM: A S: INFOR CE: 1 Pro Ser 20 Asp	Artif RMATI L1 Ile 5 Ala Thr	GON: Gly Gln Phe	Muta Ser Ser Trp	Ala Gly His	Ile Asn 25 Thr	Ser 10 Glu Phe	Arg Cys Tyr	Asn Asn Gly	Asn Lys Ala 45	Trp Ala 30	Ala 15 Ile Gly	Val Asp Asp
214 215 217 218 219 221 222 223 224 225 226 227 228	<212><213><220><220><223> 20 <400>Ala Thr Gly Pro	> TYI > ORC > FEA > OTH GaC > SEC Ser Cys Asn Lys 50	PE: IF GANISATURE ATURE IN PROPERTY OF THE PRO	PRT EM: F E: ENFOR CE: 1 Pro Ser 20 Asp	Artif RMATI Ile 5 Ala Thr	Gly Gln Phe Thr	Muta Ser Ser Trp Tyr 55	Ala Gly His 40 Thr	Ile Asn 25 Thr	Ser 10 Glu Phe Asp	Arg Cys Tyr Met	Asn Asn Gly Lys 60	Asn Lys Ala 45 Thr	Trp Ala 30 Asn Thr	Ala 15 Ile Gly Gln	Val Asp Asp Asn
214 215 217 218 219 221 222 223 224 225 226 227 228 229	<212><213><220><220><223> 20 <400>Ala Thr Gly Pro	> TYI > ORC > FEA > OTH GaC > SEC Ser Cys Asn Lys 50	PE: IF GANISATURE ATURE IN PROPERTY OF THE PRO	PRT EM: F E: ENFOR CE: 1 Pro Ser 20 Asp	Artif RMATI Ile 5 Ala Thr	Gly Gln Phe Thr	Muta Ser Ser Trp Tyr 55	Ala Gly His 40 Thr	Ile Asn 25 Thr	Ser 10 Glu Phe Asp	Arg Cys Tyr Met	Asn Asn Gly Lys 60	Asn Lys Ala 45 Thr	Trp Ala 30 Asn	Ala 15 Ile Gly Gln	Val Asp Asp Asn
214 215 217 218 219 221 222 223 224 225 226 227 228 229 230	<212><213><223><220><223> 20 400> Ala Thr Gly Pro Val 65	> TYH > ORC > FEA > OTH GaC > SEC Ser Cys Asn Lys 50 Asn	PE: HEGANISATURE ATURE HER 1 DUENC Ala Asp Lys 35 Pro Gly	PRT SM: A E: CNFOR Pro Ser 20 Asp Pro Leu	Artif RMATI Ile 5 Ala Thr His Ser	Gly Gln Phe Thr Met 70	Muta Ser Ser Trp Tyr 55 Leu	Ala Gly His 40 Thr	Ile Asn 25 Thr Ile Arg	Ser 10 Glu Phe Asp	Arg Cys Tyr Met Asp 75	Asn Asn Gly Lys 60 Gly	Asn Lys Ala 45 Thr	Trp Ala 30 Asn Thr	Ala 15 Ile Gly Gln Asn	Val Asp Asp Asn Gly 80
214 215 217 218 219 221 222 223 224 225 226 227 228 229 230 231	<212><213><220><223> 220 223 400 Ala 1 Thr Gly Pro Val 65 Trp	> TYH > ORC > FEA > OTH GaC > SEC Ser Cys Asn Lys 50 Asn Ile	PE: HEGANISATURE ATURE HER 10 QUENC Ala Asp Lys 35 Pro Gly Gly	PRT SM: A E: ENFOR CE: 1 Pro Ser 20 Asp Pro Leu Arg	Artif RMATI Ile 5 Ala Thr His Ser His 85	Gly Gln Phe Thr Met 70 Glu	Muta Ser Ser Trp Tyr 55 Leu Val	Ala Gly His 40 Thr Pro	Ile Asn 25 Thr Ile Arg	Ser 10 Glu Phe Asp Gln Ser 90	Arg Cys Tyr Met Asp 75 Ser	Asn Gly Lys 60 Gly Asp	Asn Lys Ala 45 Thr Asn	Trp Ala 30 Asn Thr Gln Thr	Ala 15 Ile Gly Gln Asn Asn 95	Val Asp Asp Asn Gly 80 Trp
214 215 217 218 219 221 222 223 224 225 226 227 228 229 230 231 232 233 234	<212><213><220><223> 220 223 400 Ala 1 Thr Gly Pro Val 65 Trp	> TYH > ORC > FEA > OTH GaC > SEC Ser Cys Asn Lys 50 Asn Ile	PE: HEGANISATURE ATURE HER 10 QUENC Ala Asp Lys 35 Pro Gly Gly	PRT SM: A E: ENFOR CE: 1 Pro Ser 20 Asp Pro Leu Arg	Artif RMATI Ile 5 Ala Thr His Ser His 85	Gly Gln Phe Thr Met 70 Glu	Muta Ser Ser Trp Tyr 55 Leu Val	Ala Gly His 40 Thr Pro	Ile Asn 25 Thr Ile Arg	Ser 10 Glu Phe Asp Gln Ser 90	Arg Cys Tyr Met Asp 75 Ser	Asn Gly Lys 60 Gly Asp	Asn Lys Ala 45 Thr Asn	Trp Ala 30 Asn Thr	Ala 15 Ile Gly Gln Asn Asn 95	Val Asp Asp Asn Gly 80 Trp
214 215 217 218 219 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235	<212><213><220><223> 227 220 223 400 Ala 1 Thr Gly Pro Val 65 Trp Gly	> TYPE > ORCO > FEF > OTH GaC > SEC Ser Cys Asn Lys 50 Asn Ile Ser	PE: HEGANISATURE ATURE HER I DUENC Ala Asp Lys 35 Pro Gly Gly Pro	PRT EM: A E: ENFOR Ser 20 Asp Pro Leu Arg Val 100	Artif RMATI Ile 5 Ala Thr His Ser His 85 Ala	Gly Gln Phe Thr Met 70 Glu Ser	Muta Ser Ser Trp Tyr 55 Leu Val	Ala Gly His 40 Thr Pro Tyr	11e Asn 25 Thr Ile Arg Leu Trp 105	Ser 10 Glu Phe Asp Gln Ser 90 Phe	Arg Cys Tyr Met Asp 75 Ser	Asn Gly Lys 60 Gly Asp	Asn Lys Ala 45 Thr Asn Gly Ser	Trp Ala 30 Asn Thr Gln Thr Thr	Ala 15 Ile Gly Gln Asn 95 Thr	Val Asp Asp Asn Gly 80 Trp Lys
214 215 217 218 219 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236	<212><213><220><223> 227 220 223 400 Ala 1 Thr Gly Pro Val 65 Trp Gly	> TYPE > ORCO > FEF > OTH GaC > SEC Ser Cys Asn Lys 50 Asn Ile Ser	PE: HEGANISATURE ATURE HER I DUENC Ala Asp Lys 35 Pro Gly Gly Pro	PRT EM: A E: ENFOR Ser 20 Asp Pro Leu Arg Val 100	Artif RMATI Ile 5 Ala Thr His Ser His 85 Ala	Gly Gln Phe Thr Met 70 Glu Ser	Muta Ser Ser Trp Tyr 55 Leu Val	Ala Gly His 40 Thr Pro Tyr	11e Asn 25 Thr Ile Arg Leu Trp 105	Ser 10 Glu Phe Asp Gln Ser 90 Phe	Arg Cys Tyr Met Asp 75 Ser	Asn Gly Lys 60 Gly Asp	Asn Lys Ala 45 Thr Asn Gly Ser	Trp Ala 30 Asn Thr Gln Thr	Ala 15 Ile Gly Gln Asn 95 Thr	Val Asp Asp Asn Gly 80 Trp Lys
214 215 217 218 219 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235	<212><213><220><223> 227 220 223 400 Ala 1 Thr Gly Pro Val 65 Trp Gly	> TYH > ORC > FEA > OTH GaC > SEC Ser Cys Asn Lys 50 Asn Ile Ser Ser	PE: HEGANISATURE ATURE HER I DUENC Ala Asp Lys 35 Pro Gly Gly Pro	PRT EM: A E: ENFOR Ser 20 Asp Pro Leu Arg Val 100	Artif RMATI Ile 5 Ala Thr His Ser His 85 Ala	Gly Gln Phe Thr Met 70 Glu Ser	Muta Ser Ser Trp Tyr 55 Leu Val Gly Arg	Ala Gly His 40 Thr Pro Tyr	11e Asn 25 Thr Ile Arg Leu Trp 105	Ser 10 Glu Phe Asp Gln Ser 90 Phe	Arg Cys Tyr Met Asp 75 Ser	Asn Asn Gly Lys 60 Gly Asp Asp	Asn Lys Ala 45 Thr Asn Gly Ser	Trp Ala 30 Asn Thr Gln Thr	Ala 15 Ile Gly Gln Asn 95 Thr	Val Asp Asp Asn Gly 80 Trp Lys

RAW SEQUENCE LISTING

DATE: 01/03/2002 PATENT APPLICATION: US/09/722,602A TIME: 13:02:00

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\01032002\I722602A.raw

238 239	Ile	Thr 130	Glu	Ala	Asn	Gly	Gln 135	Pro	Trp	Thr	Ser	11e 140	Ala	Glu	Ile	Asn
40			Gln	Ala	Ser			Thr	Ala	Pro			Gly	Leu	Gly	Arg
241	145	a.1		on l	* 1	150	_	_	<i>-</i> 1		155	- 3	. 1			160
242 243	Trp	GIY	Pro	Thr	11e 165	Asp	Leu	Pro	He	Val 170	Pro	Ala	Ala	Ala	Ala 175	He
244	Glu	Pro	Thr	Ser	Gly	Arg	Val	Leu	Met	Trp	Ser	Ser	Tyr	Arg	Asn	Asp
245				180					185				_	190		_
246 247	Ala	Phe	GLy 195	Gly	Ser	Pro	Gly	Gly 200	Ile	Thr	Leu	Thr	Ser 205	Ser	Trp	Asp
248	Pro	Ser		GLV	Tle	Val	Sar		Δra	Thr	V.a 1	Thr		Thr	Lve	His
249		210		_			215	_				220			-	
250	Asp	Met	Phe	Суѕ	Pro	Gly	Ile	Ser	Met	Asp	Gly	Asn	Gly	Gln	Ile	Val
251	225					230					235					240
252 352	Val	Thr	Gly	Gly	Asn 245	Asp	Ala	Lys	Lys		ser	Leu	туг	Asp		Ser
253	C	7	(7 a	(T)		D	(11	D	3	250	.7.7	77 - 7	3.1.		255	-
254 255	ser	Asp	ser	260	116	Pro	GLY	Pro	265	Met	GIN	Val	Ala	Arg 270	GIŸ	Tyr
256	Gln	Ser	Ser	Ala	Thr	Met.	Ser	Asp	Glv	Ara	Val	Phe	Thr	Ile	Glv	Glv
257			275					280		_			285		_	_
258	Ser	Trp	Ser	Gly	Gly	Val	Phe	Glu	Lys	Asn	Gly	Glu	Val	Tyr	Ser	Pro
259		290					295					300				
260	Ser	Ser	Lys	Thr	Trp		Ser	Leu	Pro	Asn	Ala	Lys	Val	Asn	Pro	Met
261	305					310					315					320
262	Leu	Thr	Ala	Asp	Lys	Gln	Gly	Leu	Tyr	Arg	Ser	Asp	Asn	His	Ala	Trp
263					325					330					335	
264	Leu	Phe	Gly	Trp	Lys	Lys	Gly	Ser		Phe	Gln	Ala	Gly	Pro	Ser	Thr
265				340					345					350		
266	Ala	Met		Trp	Tyr	Tyr	Thr	Ser	Gly	Ser	Gly	Asp	Val	Lys	Ser	Ala
267			355					360					365			
268	Gly	_	Arg	Gln	Ser	Asn	Arg	Gly	Val	Ala	Pro	Asp	Ala	Met	Cys	Gly
269		370	_				375					380				
270		Ala	Val	Met	Tyr		Ala	Val	Lys	GLy		Ile	Leu	Thr	Phe	Gly
271	385	_	_	_		390		_		_	395			_		400
272	Gly	Ser	Pro	Asp	_	GIn	Asp	Ser	Asp		Thr	Thr	Asn	Ala		He
273	т1.	m1.	-	a.1	405	_	a 1	m1		410		m)	1	-1	415	~
274	тте	Thr	Leu		GIU	Pro	GTA	Thr		Pro	Asn	Thr	Val	Phe	Ala	Ser
275		a 1	T	420	73.1. ·			m1	425		1	~		430	_	_
276	Asn	GIÀ		Tyr	Pne	Ата	Arg		Pne	HIS	Thr	ser		Val	Leu	Pro
277	_	a 3	435	1	-1	_,		440	- 1	~ 1	_	_	445			
278	Asp		Ser	Thr	Phe	lle		GLy	GTY	GIn	Arg	-	GLY	Ile	Pro	Phe
279	a 1	450	-	1	_	1	455	1	_		- 1	460	1	_		
280		Asp	ser	Thr	Pro		Phe	Thr	Pro	Glu		Tyr	Val	Pro	GIu	
281	465	on la	n.l.	GT.		470			_	~	475		_		an.	480
282	ASP	ınr	rne	Tyr		GIN	Asn	Pro	Asn		тте	val	Arg	Ala	_	HIS
283	C	т1 -	C =	т	485	т	D	3 -	0.1	490	77 - 7	p.1.		a 1	495	a 1
284	ser	тте	ser		ьeu	ьeu	PLO	Asp	_	arg	val	ьие	Asn	Gly	GTÅ	GTÀ
285	C1	Lou	Co~	500	1	Crea	71 h	m b	505	111 -	Dh-	7	7 I ~	510	т1-	Dh -
286	GTÀ	ьeu	ser	σтλ	ASP	Cys	THE	Inr	AST	HIS	ьпе	ASP	Ата	Gln	тте	rne

The state of the s

VERIFICATION SUMMARY

DATE: 01/03/2002 PATENT APPLICATION: US/09/722,602A TIME: 13:02:01

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\01032002\I722602A.raw

L:1287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28